PATENT COOPERATION TREATY

PCT   10 DEC 2004

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 300121WO/DJW	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/IB2003/002507	International filing date *(day/month/year)* 06/06/2003	Priority date *(day/month/year)* 12/06/2002
International Patent Classification (IPC) or national classification and IPC H04L29/06		

Applicant
NOKIA CORPORATION ET AL

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of __4__ sheets, including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:

    a. ☒ *(sent to the applicant and to the International Bureau)* a total of __4__ sheets, as follows:

    ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

    ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

    b. ☐ *(sent to the International Bureau only)* a total of (indicate type and number of electronic carrier(s))

    _____ , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

    ☒ Box No. I   Basis of the report

    ☐ Box No. II   Priority

    ☐ Box No. III   Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

    ☐ Box No. IV   Lack of unity of invention

    ☒ Box No. V   Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

    ☐ Box No. VI   Certain documents cited

    ☐ Box No. VII   Certain defects in the international application

    ☐ Box No. VIII   Certain observations on the international application

Date of submission of the demand 24-10-2003	Date of completion of this report 06-10-2004
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Authorized officer Nabil Sebaa /LR Telephone No. +46 8 782 25 00

Form PCT/IPEA/409 (cover sheet) (January 2004)

Box No. I	Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This report is based on a translation from the original language into the following language _____ , which is the language of a translation furnished for the purposes of:

    ☐ international search (under Rules 12.3 and 23.1(b))

    ☐ publication of the international application (under Rule 12.4)

    ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):*

☐ the international application as originally filed/furnished

☒ the description:

    pages   **1-11** _____ as originally filed/furnished

    pages* _____ received by this Authority on _____

    pages* _____ received by this Authority on _____

☒ the claims:

    pages _____ as originally filed/furnished

    pages* _____ as amended (together with any statement) under Article 19

    pages*   **12-15** _____ received by this Authority on **04/10/2004** _____

    pages* _____ received by this Authority on _____

☒ the drawings:

    pages   **1-2** _____ as originally filed/furnished

    pages* _____ received by this Authority on _____

    pages* _____ received by this Authority on _____

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

    ☐ the description, pages _____

    ☐ the claims, Nos. _____

    ☐ the drawings, sheets/figs _____

    ☐ the sequence listing *(specify)*: _____

    ☐ any table(s) related to the sequence listing *(specify)*: _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

    ☐ the description, pages _____

    ☐ the claims, Nos. _____

    ☐ the drawings, sheets/figs _____

    ☐ the sequence listing *(specify)*: _____

    ☐ any table(s) related to the sequence listing *(specify)*: _____

* *If item 4 applies, some or all of those sheets may be marked "superseded."*

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-27	YES
	Claims		NO
Inventive step (IS)	Claims	1-27	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-27	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:
D1: GB 2 356 321 A
D2: US 2002 002586 A1

The claimed invention relates to downloadable profiles for mobile terminals.

The problem to be solved by the claimed invention relates in that current profiles that are predefined in mobile phones are not easily customised based on on-going events. Examples of events are: location dependent event, i.e based on the location of the mobile terminal and time dependent event.

The claimed invention according to claims 1-27 filed with the letter of 04/10/2004 differs from originally filed claims 1-19 in the following:

A new dependent claim 2 has been introduced, defining that the profile includes a collection of user settings or preferences. A new claim 3 has been introduced defining that the profile includes user manageable settings. A new claim 4 has been introduced, defining that the profile includes a custom or event specific profile package. A new claim 5 defines further the step of installing the profile in the mobile station. Equivalent dependent apparatus (the application server) claims 15-18 have also been introduced, defining similar features as the ones described in corresponding new claims 2-5.

The claimed invention as defined in new claims 1-27 is now clearly distinct over D1 which was found relevant to original claims 1-17 in that in D1 a profile is neither

.../...

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V

mentioned nor suggested. Instead, in D1 a mobile terminal is provided with information relevant to the user's actual location in the form of an URL which could comprise a block of information that is determined relate to a subject that might be of interest to the mobile device at that particular location. An addition relevant difference between D1 and the claimed invention according to new claims 1-27 concerns the detection of an association of a mobile terminal with an event, as described in independent claim 1. Instead, the mobile terminal in D1 specifically requests information from an application server, wherein the request contains the mobile's location information. Responsive to receipt of the request, the server of D1 provides information associated with the location. No detection of the presence of a mobile terminal is thus performed in D1. A further difference between D1 and the claimed invention according to new claims 1-27 concerns the installation of a profile in the claimed invention. In D1, no requirement to install a profile is performed; and installation of a profile is not similar to a presentation of information as is the case in D1.

Therefore, D1 is considered to represent the general state of the art, and the invention defined in new claims 1-27 is not disclosed by this document.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method, apparatus and system of providing profiles to a mobile terminal; and modifying the system and method of D1 to introduce the described differences presented above between D1 and the claimed invention would require major non-obvious modifications of the system of D1.

Accordingly, the invention defined in claims 1-27 is novel and is considered to involve an inventive step. The invention is also industrially applicable.

Document D2 represents also the general state of the art, and the invention claimed in claims 1-27 is not disclosed by this document.

Form PCT/IPEA/409 (Supplemental Box) (January 2004)

The Swedish Patent Office
PCT International Application

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CLAIMS:

1.   A method of providing a profile to a mobile terminal, the method comprising:

allocating a profile to a specific event;

detecting an association of a mobile terminal with said event; and

transmitting said profile to said mobile terminal.

2.   A method according to claim 1 wherein said profile includes a collection of user settings or preferences.

3.   A method according to claim 1 or claim 2 wherein said profile includes user manageable settings.

4.   A method according to any one of claims 1 to 3 wherein said profile includes a custom or event specific profile package.

5.   A method according to any one of claims 1 to 3 further including the step of installing the profile in said mobile station.

6.   A method according to any one of claims 1 to 5, wherein said event is a location dependent event, the step of detecting an association of a mobile terminal with said event comprising detecting a location of the mobile terminal.

7.   A method according to claim 6, wherein said event is further a time dependent event, the step of detecting an association of a mobile terminal with said event further comprising detecting the location of the mobile terminal within a predetermined time period.

8.   A method according to claim 7, wherein the predetermined time period corresponds to duration of the event.

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AMENDED SHEET

9.   A method according to any preceding claim, further comprising removing said profile from said mobile terminal responsive to termination of said event.

10.   A method according to claim 9, wherein said removing step comprises transmitting a termination signal to said mobile terminal responsive to which said profile is deleted.

11.   A method according to claim 10, wherein the profile is removed responsive to the mobile terminal leaving the location associated with an event.

12.   A method according to any preceding claim wherein the profile includes a link to event specific information.

13.   A method according to any preceding claim wherein the profile includes the identity of an instant community.

14.   An application server for providing an event specific profile to at least one mobile terminal, including:
        a first communications interface for providing a mobile network with event specific information;
        a second communications interface for receiving details of a mobile terminal associated with said event specific information;
        and a third communications interface for transmitting the event specific profile to the mobile terminal associated with said event specific information.

15.   An application server according to claim 14 wherein said profile includes a collection of user settings or preferences.

16.   An application server according to claim 14 or claim 15 wherein said profile includes user manageable settings.

AMENDED SHEET

17. An application server according to any one of claims 14 to 16 wherein said profile includes a custom or event specific profile package.

18. An application server according to any one of claims 14 to 17 further including the step of installing the profile in said mobile station.

19. An application server according to any one of claims 14 to 18, wherein the event is a location dependent event.

20. An application server according to any one of claims 14 to 19 wherein the event is further a time dependent event.

21. An application server according to any one of claims 14 or claim 20, wherein the event specific information is a geographical location.

22. An application server according to any one of claims 14 to 21, wherein the second communications interface receives details of a mobile terminal located in said location

23. An application server according to claim 22, wherein said details include the identity of the mobile terminal.

24. An application server according to any one of claims 14 to 23, wherein the first and second communications interface are a fixed line communication interface.

25. An application server according to any one of claims 14 to 24, wherein the third communication interface is a mobile wireless communication interface.

26. An application server according to claim 25, wherein the third communication interface is a GPRS or Bluetooth interface.

AMENDED SHEET

27.   A communication system for providing event specific profiles to mobile terminals, comprising:

an application server associated with the event;

a mobile communication network for receiving event specific characteristics from the application server; and

at least one mobile terminal for connection in said network;

wherein the mobile network notifies the application server if the mobile terminal is associated with said event, and when responsive thereto the application server transmits the event specific profile to said mobile terminal.